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SEQUENCE LISTING

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Celis, Esteban

<120> HLA Binding Peptides and Their Uses

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<140> 09/665,510

<141> 2000-09-19

<150> US 08/347,610

<151> 1994-12-01

<150> US 08/159,339

<151> 1993-11-29

<150> US 08/103,396

<151> 1993-08-06

<150> US 08/027,746

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<150> US 07/926,666

<151> 1992-08-07

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Lys Ala Leu Lys Phe Tyr Ser Lys Ile
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Val Tyr Asp Phe Ala Phe Arg Asp Leu
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Glu Tyr Arg His Tyr Ala Tyr Ser Leu
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Pro Tyr Ala Val Ala Asp Lys Ala Leu
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Met His Gln Lys Arg Thr Ala Met Phe
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His Tyr Ala Tyr Ser Leu Tyr Gly Thr
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Leu Leu Arg Arg Glu Val Tyr Asp Phe
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His Leu Asp Met Leu Arg His Leu Tyr
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Leu Leu Asp Ile Asp Glu Thr Glu Tyr
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Glu Thr Leu Glu Glu Ile Thr Gly Tyr
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Phe Thr His Gln Ser Asp Val Trp Ser Tyr
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Tyr	Val	Met	Ala	Gly	Val	Gly	Ser	Pro	Tyr
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Met Gly Asp Leu Val Asp Ala Glu Glu Tyr
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Lys Ile Arg Lys Tyr Thr Met Arg Arg
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Val Val Phe Gly Ile Leu Ile Lys Arg
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Leu Val Lys Ser Pro Asn His Val Lys
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Val Leu Arg Glu Asn Thr Ser Pro Lys
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Ile Leu Ile Lys Arg Arg Gln Gln Lys
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Leu Leu Asp His Val Arg Glu Asn Arg
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Cys Val Asn Cys Ser Gln Phe Leu Arg
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Thr Val Cys Ala Gly Gly Cys Ala Arg
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Ile Leu Lys Glu Thr Glu Leu Arg Lys
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Asp Leu Ser Tyr Met Pro Ile Trp Lys
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Pro Val Gly Glu Ala Asp Tyr Phe Glu Tyr
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Arg Ser Gly Ala Ala Gly Ala Ala Val Lys
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Ser Ser Thr Leu Glu Leu Arg Ser Arg Tyr
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Ala Tyr Glu Arg Met Cys Asn Ile Leu
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Met Ser Thr Thr Asp Leu Glu Ala Tyr
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Gln Ser Ala Val Arg Lys Glu Ala Tyr
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Pro Leu Asp Lys Gly Ile Lys Pro Tyr
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Pro Ser Arg Gly Arg Leu Gly Leu Tyr
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Thr Thr Pro Ala Gln Gly Thr Ser Met Tyr
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His Ser Ala Ser Phe Cys Gly Ser Pro Tyr
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Thr	Ser	Cys	Pro	Pro	Ile	Cys	Pro	Gly	Tyr
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Lys	Ser	Val	Gln	His	Leu	Glu	Ser	Leu	Tyr
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Asn	Leu	Tyr	Val	Ser	Leu	Leu	Leu	Leu	Tyr
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Trp	Met	Met	Trp	Tyr	Trp	Gly	Pro	Ser	Leu
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Ile Met Pro Ala Arg Phe Tyr Pro Lys
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Cys Leu His Gln Ser Pro Val Arg Lys
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Ser Ala Ile Cys Ser Val Val Arg Arg
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His Leu His Gln Asp Ile Ile Lys Lys
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Ser Leu Pro Gln Glu His Ile Ile Gln Lys
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Ser Met Phe Pro Ser Cys Cys Cys Thr Lys
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Ser	Met	Tyr	Pro	Ser	Cys	Cys	Cys	Thr	Lys
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Gln	Ala	Phe	Thr	Phe	Ser	Pro	Thr	Tyr	Lys
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Pro Thr Tyr Lys Ala Phe Leu Cys Lys
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Pro Thr Asp Leu Glu Ala Tyr Phe Lys
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Lys Tyr Thr Ser Phe Pro Trp Leu Leu
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Leu Tyr Ala Ala Val Thr Asn Phe Leu
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Phe Tyr Pro Asn Leu Thr Lys Tyr Leu
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Leu Tyr Ser Ser Thr Val Pro Ser Phe
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Phe Tyr Pro Lys Val Thr Lys Tyr Leu
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Phe Tyr Pro Asn Val Thr Lys Tyr Leu
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Leu Tyr Ser Ile Leu Ser Pro Phe Leu
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Leu Tyr Ser Ser Thr Val Pro Val Leu
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Leu Tyr Asn Ile Leu Ser Pro Phe Leu
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Asn Tyr Arg Val Ser Trp Pro Lys Phe
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His Tyr Phe Gln Thr Arg His Tyr Leu
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His Tyr Phe Lys Thr Arg His Tyr Leu
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Gly Tyr Pro Ala Leu Met Pro Leu Tyr
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Ala Tyr Arg Pro Pro Asn Ala Pro Ile
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Leu Tyr Gln Thr Phe Gly Arg Lys Leu
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Ser Tyr Gln His Phe Arg Arg Leu Leu
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Ser Tyr Gln His Phe Arg Arg Leu Leu Leu
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Ser Tyr Gln His Phe Arg Lys Leu Leu Leu
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Gly	Tyr	Arg	Trp	Met	Cys	Leu	Arg	Arg	Phe
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Asn Phe Leu Leu Ser Leu Gly Ile His Leu
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Leu Leu Tyr Lys Thr Phe Gly Arg Lys
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Leu Leu Tyr Lys Thr Tyr Gly Arg Lys
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Val Thr Lys Tyr Leu Pro Leu Asp Lys
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Arg His Tyr Leu His Thr Leu Trp Lys
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Pro Thr Tyr Lys Ala Phe Leu Thr Lys
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Ser Thr Thr Ser Thr Gly Pro Cys Lys
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Cys Leu His Gln Ser Ala Val Arg Lys
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Val Val Asp Phe Ser Gln Phe Ser Arg
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Pro Leu Tyr Ala Cys Ile Gln Ala Lys
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Arg Leu Lys Leu Ile Met Pro Ala Arg
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Ile Leu Tyr Lys Arg Glu Thr Thr Arg
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Asn Val Ser Ile Pro Trp Thr His Lys
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Thr Val Asn Glu Lys Arg Arg Leu Lys
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Ser Val Pro Ser His Leu Pro Asp Arg
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Asn Val Thr Lys Tyr Leu Pro Leu Asp Lys
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Arg Val Cys Glu Lys Met Ala Leu Tyr
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Ser Val Pro Ala Glu Ile Leu Arg Lys
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Arg Leu Gly Val Arg Ala Thr Arg Lys
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Leu Ile Phe Cys His Ser Lys Lys Lys
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Arg Met Tyr Val Gly Gly Val Glu His Arg
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His Leu Ile Phe Cys His Ser Lys Lys Lys
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Ile Tyr Gln Tyr Met Asp Asp Leu Tyr
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Thr Val Leu Asp Val Gly Asp Ala Tyr
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Val Thr Val Leu Asp Val Gly Asp Ala Tyr
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Ile Val Ile Trp Gly Lys Thr Pro Lys
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Gly Ile Pro His Pro Ala Gly Leu Lys
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Gln Ile Ile Glu Gln Leu Ile Lys Lys
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Tyr Leu Ala Trp Val Pro Ala His Lys
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Met Thr Lys Ile Leu Glu Pro Phe Arg
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Gly Ile Pro His Pro Ala Gly Leu Lys Lys
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Val	Val	Ile	Gln	Asp	Asn	Ser	Asp	Ile	Lys
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Phe	Thr	Thr	Pro	Asp	Lys	Lys	His	Gln	Lys
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Leu	Val	Glu	Ile	Cys	Thr	Glu	Met	Glu	Lys
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Leu	Val	Gln	Asn	Ala	Asn	Pro	Asp	Cys	Lys
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Gln	Ala	Glu	Pro	Asp	Arg	Ala	His	Tyr
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Val Tyr Asp Phe Ala Phe Arg Asp Leu
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Val Tyr Gly Asp Thr Leu Glu Lys Leu
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Ser Val Tyr Gly Asp Thr Leu Glu Lys
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Ile Val Cys Pro Ile Cys Ser Gln Lys
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Cys Ile Asp Phe Tyr Ser Arg Ile Arg
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Asp	Ile	Ile	Leu	Glu	Cys	Val	Tyr	Cys	Lys
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Glu Val Asp Pro Ile Gly His Leu Tyr
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Glu Ala Asp Pro Thr Ser Asn Thr Tyr
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Glu Ala Asp Pro Thr Gly His Ser Tyr
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Ser Ser Leu Pro Thr Thr Met Asn Tyr
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Gly Ser Val Val Gly Asn Trp Gln Tyr
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Ser Ser Pro Ser Thr Thr Ile Asn Tyr
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Met Leu Glu Ser Val Ile Lys Asn Tyr
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Ala Ser Ser Leu Pro Thr Thr Met Asn Tyr
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Glu	Thr	Ser	Tyr	Val	Lys	Val	Leu	Glu	Tyr
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Asp	Leu	Val	Gln	Glu	Lys	Tyr	Leu	Glu	Tyr
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Thr	Thr	Ile	Asn	Phe	Thr	Arg	Gln	Arg
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Leu Phe Arg Ala Val Ile Thr Lys Lys
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Leu Ser Val Met Glu Val Tyr Asp Gly Arg
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Lys Ala Glu Met Leu Glu Ser Val Ile Lys
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Arg	Ala	Leu	Ala	Glu	Thr	Ser	Tyr	Val	Lys
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Ser Leu Phe Arg Ala Val Ile Thr Lys
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Ser Val Met Glu Val Tyr Asp Gly Arg
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Ser Leu Phe Arg Ala Val Ile Thr Lys Lys
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Gly	Thr	Ala	Lys	Ser	Val	Thr	Cys	Thr	Tyr
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Arg	Val	Glu	Gly	Asn	Leu	Arg	Val	Glu	Tyr
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Val Val Arg Arg Cys Pro His His Glu Arg
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Leu Gly Glu Tyr Ile Arg Lys Arg Tyr
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Ala Ser Cys His Leu Thr Glu Leu Tyr
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Glu Ser Tyr Lys His Glu Gln Val Tyr
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Leu Thr Gln Leu Gly Met Glu Gln His Tyr
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Leu Val Asn Glu Ile Leu Asn His Met Lys
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Ala Thr Gln Ile Pro Ser Tyr Lys Lys
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<400> 581

Glu Thr Leu Lys Ser Glu Glu Phe Gln Lys
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Leu Tyr Cys Glu Ser Val His Asn Phe
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Pro Tyr Lys Asp Phe Ile Ala Thr Leu
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Val Tyr Asn Gly Leu Leu Pro Pro Tyr
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Pro Tyr Ala Ser Cys His Leu Thr Glu Leu
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<210> 587

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Ala Leu Pro Glu Arg Pro Ser Leu Tyr
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<210> 588

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Pro Leu Tyr Asp Met Ser Leu Leu Lys
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Val Val His Tyr Arg Lys Trp Ile Lys
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Tyr Thr Lys Val Val His Tyr Arg Lys
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Ser Leu Leu Lys Asn Arg Phe Leu Arg
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Ile Val Gly Gly Trp Glu Cys Glu Lys
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Gln Val His Pro Gln Lys Val Thr Lys
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<210> 595

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Ser Leu Tyr Thr Lys Val Val His Tyr Arg
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<400> 596

Leu Thr Ala Ala His Cys Ile Arg Asn Lys
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<400> 597

Arg Ile Val Gly Gly Trp Glu Cys Glu Lys
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<400> 598

Lys Val Val His Tyr Arg Lys Trp Ile Lys
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Val Thr Lys Phe Met Leu Cys Ala Gly Arg
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Met Leu Leu Arg Leu Ser Glu Pro Ala
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Met Leu Leu Arg Leu Ser Glu Pro Ala Glu Leu
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